## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| **In Re Application of** | ) | |
| | ) | **For: Iterative Channel And Interference** |
| **Aamod Khandekar et al** | ) | **Estimation And Decoding** |
| | ) | |
| | ) | |
| **Serial No. To be Assigned** | ) | |
| | ) | |
| **Filed: Herewith** | ) **Group No.** | |

## INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313

Dear Sir:

Applicants submit herewith, in accordance with 37 CFR § 1.98, the patents, publications and other information listed on the enclosed Form PTO-1449.

The references submitted herewith are those of which Applicants are aware, which they believe may be material to the examination of this application and, with respect to which there may be a duty to disclose in accordance with 37 CFR § 1.56. While the references identified may be material to the examination of this application pursuant to 37 CFR § 1.56, the citation of these references is not intended to constitute an admission that any reference referred to herein is prior art to the invention of this application, unless specifically designated as such. Additionally, the filing of this Information Disclosure Statement shall not be construed to mean that any search has been made or, that if made, such search was complete or exhaustive, or that no other material information as defined in 37 CFR § 1.56 exists.

In accordance with 37 CFR § 1.97(b)(3), this Information Disclosure Statement is being submitted before mailing of the first Office Action on the merits.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313, on:

| March 1, 2004 |
|---|
| (Date of Deposit) |

Courtney Buyre
(Name of the Person Making Deposit)

(Signature)

A list of the references is set forth on Form PTO-1449, which is enclosed herewith, along with a copy of each cited reference. Applicants respectfully request that the Examiner return to Applicants a copy of the Form PTO-1449 indicating consideration of the references cited thereon.

Applicants do not believe that any fees are due. If, however, it is determined that fees are owed, Applicants hereby authorize that such fees be charged to Deposit Account No. 17-0026.

Respectfully submitted,

Dated: March 1, 2004          By: _____
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| FORM PTO-1449 (REV. 7-80) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use several sheets if necessary)* | ATTY. DOCKET NO. 030372 | SERIAL NO. to be Assigned |
|---|---|---|
| | APPLICANT Aamod Khandekar et al | |
| DATE MAILED: March 1, 2004 | FILING DATE March 1, 2004 | GROUP |

## U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|---|---|---|---|---|---|---|---|
| | A1 | | | | | | |
| | A2 | | | | | | |
| | A3 | | | | | | |
| | A4 | | | | | | |
| | A5 | | | | | | |
| | A6 | | | | | | |
| | A7 | | | | | | |
| | A8 | | | | | | |

## FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | Ref No | DOCUMENT NUMBER | DATE | COUNTRY | NAME | CLASS | SUB CLASS |
|---|---|---|---|---|---|---|---|
| | B1 | | | | | | |
| | B2 | | | | | | |
| | B3 | | | | | | |
| | B4 | | | | | | |
| | B5 | | | | | | |

## OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Page, Etc.)*

| | | |
|---|---|---|
| | C1 | R. Michael Tanner, "A Recursive Approach to Low Complexity Codes," IEEE Transactions on Info Theory, VOL. IT-27, No. 5 (Sept. 1981) |
| | | Rza Nuriyev et al., "Analysis of Joint Iterative Decoding and Phase Estimation for the Non-Coherent AWGN Channel, Using Density Evolution" University of Michigan, Electrical Engineering and Computer Science Department |
| | C2 | H. Jin and T. J. Richardson, "Design of Low-Density Parity-Check Codes for Noncoherent MPSK Communication", Proc. Int. Symp. Information Theory, Lausanne, Switzerland, June 2002, p. 169 |
| | | |
| | C3 | |
| | | |

| EXAMINER | DATE CONSIDERED |
|---|---|
| | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.